Vignesh Pugalenthi

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Professional Summary

Software Engineer with 3+ years of experience in API development, system integration, and backend engineering using Java (Spring Boot), MuleSoft, and AWS. Processed 2,000+ production records daily and improved deployment efficiency by 40% through CI/CD automation.

Work Experience

CSUDH Loker Student Union - Carson, United States   Apr 2024 - May 2025
Technical Operations Assistant

- Resolved 15+ software issues across Mac/Windows systems, including HDMI display errors and driver conflicts.
- Managed Zoom sessions with 50+ participants each, providing in-session technical support.
- Supported 30+ speakers during live streaming events, maintaining 100% uptime through real-time monitoring.

Tata Consultancy Services - Chennai, India   Mar 2021 - Jun 2023
Software Engineer

- Developed 3+ enterprise APIs using MuleSoft (RAML) for order, product and customer data management.
- Built role-based user system with Spring Boot and OAuth2 authentication for employee management.
- Implemented automated testing framework with MUnit and JUnit, achieving 85% coverage and reducing bugs.
- Built event-driven microservices with AWS (SQS, SNS, S3) and HubSpot APIs for automated email processing, reducing manual processing time by 60%.
- Implemented CI/CD pipelines using AWS CodePipeline with SonarQube, reducing deployment time by 40%.
- Created reusable email templates with Jinja logic for order processing, standardizing 15+ templates into 10.
- Implemented MySQL tracking system for cart reminder campaigns with automated follow-up scheduling.
- Optimized MS SQL Server database queries using JSON combining 4 tables, reducing database calls by 3x while processing 2,000+ daily transactions.

PeopleOne Technology Private Limited - Chennai, India   Jul 2019 - Feb 2020
Full Stack Developer Intern

- Built a web application using Django with user authentication and media posting features as part of training.
- Performed quality assurance testing for multilingual training platform, validating language translations and functionality across 5+ languages.

Projects

FairShare [GitHub] – Swift (SwiftUI), Python (FastAPI, Celery), MongoDB, Redis

- Referral sharing platform that ensures fair distribution of referral opportunities across users.
- Implemented priority queue algorithms with Redis caching and Celery workers to manage queue position.
- Integrated OAuth2 authentication for secure user access and session management
- Built and tested with 50+ simulated referral scenarios to validate queue fairness.

Skills

Languages: Java, Python, C++, JavaScript, PHP
Frameworks: Spring Boot, MuleSoft, Django, Flask, FastAPI
DevOps/Cloud: Amazon Web Services, Azure, Docker, Terraform, Jenkins
Databases: MySQL, SQL Server, MongoDB, Redis
Tools: Postman, GitHub, Swagger, IntelliJ, JUnit, MUnit, Anypoint Platform

Education

California State University Dominguez Hills - Carson, United States   Aug 2023 - May 2025
Master of Science in Computer Science   GPA: 4/4

Jeppiaar Engineering College - Chennai, India   Aug 2016 - Sep 2020
Bachelor of Engineering in Computer Science and Engineering   GPA: 8.27/10